

# Kerui Li

## List of Publications by Year in descending order

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38  
papers

2,135  
citations

218592

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330025

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39  
docs citations

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times ranked

2800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic MXene Textures with Enhanced Light-to-Heat Conversion for Solar Steam Generation and Wearable Thermal Management. <i>Advanced Energy Materials</i> , 2019, 9, 1901687.	10.2	210
2	Reversible Crumpling of 2D Titanium Carbide (MXene) Nanocoatings for Stretchable Electromagnetic Shielding and Wearable Wireless Communication. <i>Advanced Functional Materials</i> , 2020, 30, 1907451.	7.8	155
3	Controlled Crumpling of Two-Dimensional Titanium Carbide (MXene) for Highly Stretchable, Bendable, Efficient Supercapacitors. <i>ACS Nano</i> , 2018, 12, 8048-8059.	7.3	136
4	Fluoroalkylsilane-Modified Textile-Based Personal Energy Management Device for Multifunctional Wearable Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4676-4683.	4.0	130
5	Aluminum Ion Intercalation Supercapacitors with Ultrahigh Areal Capacitance and Highly Enhanced Cycling Stability: Power Supply for Flexible Electrochromic Devices. <i>Small</i> , 2017, 13, 1700380.	5.2	107
6	Wireless $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Strain Sensor with Ultrahigh Sensitivity and Designated Working Windows for Soft Exoskeletons. <i>ACS Nano</i> , 2020, 14, 11860-11875.	7.3	99
7	Stretchable Graphene Pressure Sensors with Shar-Pei-like Hierarchical Wrinkles for Collision-Aware Surgical Robotics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10226-10236.	4.0	98
8	Red, Green, Blue (RGB) Electrochromic Fibers for the New Smart Color Change Fabrics. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13043-13050.	4.0	97
9	Synergistic Solvation and Interface Regulations of Eco-Friendly Silk Peptide Additive Enabling Stable Aqueous Zinc Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	91
10	Lattice-contraction triggered synchronous electrochromic actuator. <i>Nature Communications</i> , 2018, 9, 4798.	5.8	80
11	Multifunctionality and Mechanical Actuation of 2D Materials for Skin-Mimicking Capabilities. <i>Advanced Materials</i> , 2018, 30, e1802418.	11.1	72
12	Metal Ion-Induced Assembly of MXene Aerogels via Biomimetic Microtextures for Electromagnetic Interference Shielding, Capacitive Deionization, and Microsupercapacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2101494.	10.2	61
13	$\text{MoS}_2$ Membranes for Organic Solvent Nanofiltration: Stability and Structural Control. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4609-4617.	2.1	57
14	Recent advances in integration of 2D materials with soft matter for multifunctional robotic materials. <i>Materials Horizons</i> , 2020, 7, 54-70.	6.4	55
15	Multifunctional metallic backbones for origami robotics with strain sensing and wireless communication capabilities. <i>Science Robotics</i> , 2019, 4, .	9.9	53
16	Synergistic Antimicrobial Capability of Magnetically Oriented Graphene Oxide Conjugated with Gold Nanoclusters. <i>Advanced Functional Materials</i> , 2019, 29, 1904603.	7.8	51
17	Continuously Processed, Long Electrochromic Fibers with Multi-Environmental Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28451-28460.	4.0	48
18	Prepolymerization-assisted fabrication of an ultrathin immobilized layer to realize a semi-embedded wrinkled AgNW network for a smart electrothermal chromatic display and actuator. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9778-9785.	2.7	46

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19	Heterogeneous, 3D Architecturing of 2D Titanium Carbide (MXene) for Microdroplet Manipulation and Voice Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8392-8402.	4.0	44
20	Light-to-Heat Conversion: Biomimetic MXene Textures with Enhanced Light-to-Heat Conversion for Solar Steam Generation and Wearable Thermal Management ( <i>Adv. Energy Mater.</i> 34/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970141.	10.2	43
21	Reduced graphene oxide functionalized stretchable and multicolor electrothermal chromatic fibers. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11448-11453.	2.7	41
22	Thermal Camouflaging MXene Robotic Skin with Bio-Inspired Stimulus Sensation and Wireless Communication. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	39
23	Automatic strain sensor design via active learning and data augmentation for soft machines. <i>Nature Machine Intelligence</i> , 2022, 4, 84-94.	8.3	37
24	Lightweight, highly bendable and foldable electrochromic films based on all-solution-processed bilayer nanowire networks. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5849-5857.	2.7	34
25	Transparent Metal-Organic Framework-Based Gel Electrolytes for Generalized Assembly of Quasi-Solid-State Electrochromic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42955-42961.	4.0	32
26	2D-Material-integrated hydrogels as multifunctional protective skins for soft robots. <i>Materials Horizons</i> , 2021, 8, 2065-2078.	6.4	31
27	Tunable Magnetic Response in 2D Materials via Reversible Intercalation of Paramagnetic Ions. <i>Advanced Electronic Materials</i> , 2019, 5, 1900040.	2.6	28
28	Graphene Oxide-Enabled Synthesis of Metal Oxide Origamis for Soft Robotics. <i>ACS Nano</i> , 2019, 13, 5410-5420.	7.3	28
29	Multigenerational Crumpling of 2D Materials for Anticounterfeiting Patterns with Deep Learning Authentication. <i>Matter</i> , 2020, 3, 2160-2180.	5.0	26
30	A portable ascorbic acid in sweat analysis system based on highly crystalline conductive nickel-based metal-organic framework (Ni-MOF). <i>Journal of Colloid and Interface Science</i> , 2022, 616, 326-337.	5.0	24
31	Three-Dimensional Clustered Nanostructures for Microfluidic Surface-Enhanced Raman Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24974-24981.	4.0	18
32	Stretchable electrothermochromic fibers based on hierarchical porous structures with electrically conductive dual-pathways. <i>Science China Materials</i> , 2020, 63, 2582-2589.	3.5	17
33	Electrochemical Actuators with Multicolor Changes and Multidirectional Actuation. <i>Small</i> , 2022, 18, e2107778.	5.2	15
34	Multifunctional Mechanical Sensing Electronic Device Based on Triboelectric Anisotropic Crumpled Nanofibrous Mats. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55481-55488.	4.0	13
35	Cation-Induced Assembly of Conductive MXene Fibers for Wearable Heater, Wireless Communication, and Stem Cell Differentiation. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 2129-2139.	2.6	12
36	Graphene-based implantable neural electrodes for insect flight control. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4632-4639.	2.9	4

#	ARTICLE	IF	CITATIONS
37	Redox-Active Ni(II) Nodes Induced Electrochromism in a Two-Dimensional Conductive Metal-Organic Framework. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2915-2922.	2.0	3
38	Synergistic Antimicrobial Nanomaterials: Synergistic Antimicrobial Capability of Magnetically Oriented Graphene Oxide Conjugated with Gold Nanoclusters ( <i>Adv. Funct. Mater.</i> 46/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970320.	7.8	0